

## CLAIMS

What is claimed is:

1 1. An electronic device comprising:  
2 a processor; and  
3 a digitizer pad formed at least partially from a first material, the first material being  
4 deflectable to generate an electrical signal, the first material integrated with the digitizer pad  
5 to provide a shaped feature on an exterior surface of the digitizer pad, the shaped feature  
6 being deflectable to detect contact with an external object on one or more contact points, the  
7 first material signaling an input for the processor corresponding to the external object  
8 contacting the one or more contact points.

1 2. The electronic device of claim 1, wherein the first material detects a  
2 position of the external object contacting the shaped feature, the position  
3 corresponding to a function performed by the processor in response to being  
4 signaled the input.

1 3. The electronic device of claim 1, wherein the input to the processor  
2 causes the processor to implement a configuration for an image provided on the  
3 digitizer pad.

1 4. The electronic device of claim 1, wherein the shaped feature includes a  
2 recess accessible from the exterior surface of the electronic display.

1 5. The electronic device of claim 3, wherein the one or more contact points  
2 include a first contact point positioned to identify an input for scrolling the  
3 image on the digitizer pad in a first direction.

1 6. The electronic device of claim 5, wherein the one or more contact points  
2 include a second contact point positioned to identify an input for scrolling the  
3 image on the digitizer pad in a second direction.

1 7. The electronic device of claim 1, wherein the first material comprises a  
2 conductive paste.

1 8. The electronic device of claim 1, wherein the one or more contact points  
2 include a first contact point positioned to identify a selection entered from a  
3 user of the electronic device.

1 9. The electronic device of claim 4, further comprising a cap positioned  
2 within the recess, the cap being moveable by the external object to contact the  
3 one or more contact points.

1 10. The electronic device of claim 9, further comprising a gel volume  
2 positioned within the recess between the cap and the one or more contact points.

1 11. The electronic device of claim 4, further comprising a gel volume  
2 positioned within the recess to be intermediate to the external object contacting  
3 the one or more contact points.

1 12. The electronic device of claim 1, further comprising a display having a  
2 display surface formed on an exterior panel of the electronic device, wherein at  
3 least a portion of the digitizer pad overlays the display to detect contact made on  
4 the display surface.

1 13. An electronic device comprising:  
2 a processor; and  
3 a housing formed at least partially from a first material, the first material having a  
4 characteristic of generating an electrical signal in response to a contact by an external object,  
5 the first material being formed to provide a shaped feature on an exterior surface of the  
6 housing, the shaped feature including one or more contact points to detect contact from the  
7 external object, the first material signaling an input to the processor corresponding to the  
8 external object contacting the one or more contact points.

1 14. The electronic device of claim 13, wherein the housing detects a position of the  
2 external object contacting the shaped feature, the position corresponding to a function  
3 performed by the processor in response to being signaled the input.

1 15. The electronic device of claim 13, wherein the shaped feature includes a recess  
2 accessible from the exterior surface of the housing.

1 16. The electronic device of claim 13, wherein the first material comprises a conductive  
2 paste.

1 17. A display module for an electronic device, the display module comprising:  
2 a first thickness comprising a first layer and a second layer, the first layer and the  
3 second layer each formed from a first material, the first layer forming a shaped feature from  
4 the first material on an external surface of the display module, the first material having a  
5 characteristic of generating an electrical signal in response to a contact by an external object,  
6 the shaped feature including one or more contact points where an input signal is generated  
7 when the first layer contacts the second layer.

1 18. The display module of claim 17, further comprising an exterior layer overlaid on the  
2 first layer, the exterior layer comprising a film.

1 19. The display module of claim 18, further comprising a display to create an image, the  
2 exterior layer and the first layer being overlaid on the display layer.

1 20. The display module of claim 17, further comprising a substrate including trace  
2 elements to signal the input signal generated by the first layer contacting the second layer to a  
3 processor.

1 21. The display module of claim 18, wherein the shaped feature forms a recess on at least  
2 the exterior layer and the first layer.

1 22. The display module of claim 18, wherein the shaped feature is formed on at least the  
2 exterior layer, the first layer, and the second layer.

1 23. The display module of claim 17, wherein the first thickness includes an air gap that  
2 spaces the first layer from the second layer until the first layer is deflected to make contact  
3 with the second layer.

1 24. An electronic device comprising:

2 a housing formed at least partially from a first material having a characteristic of  
3 generating an electrical signal in response to a contact by an external object, the first material  
4 signaling an input for the processor when the housing is contacted at a contact point; and

5 a gel volume positioned over the contact point of the housing; and

6 an end piece attached to the gel volume, the end piece being moveable to displace an  
7 interior mass of the gel volume so as to deflect the contact point.

1 25. The electronic device of claim 24, wherein the end piece extends away from a surface  
2 of the housing providing the contact point.

1 26. The electronic device of claim 24, wherein the gel volume is positioned over a planar  
2 surface of the housing.

1 27. The electronic device of claim 24, wherein the housing is formed from a first layer,  
2 an air gap, and a second layer spaced from the first layer by the air gap, the first layer and the  
3 second layer being formed from the first material.

1 28. An electronic device comprising:

2 a processor;

3 a housing containing the processor; and

4 a three-dimensional contact-sensitive feature that is unitarily combined with the  
5 housing, the feature being actuatable to signal an input for the processor.

1 29. The electronic device of claim 28, further comprising an analog-digital converter to  
2 receive the input from the feature in an analog format, and to signal the input to the processor  
3 in a digital format.

1 30. The electronic device of claim 28, wherein the three-dimensional contact sensitive  
2 feature comprises a gel volume.

1 31. The electronic device of claim 28, wherein the three-dimensional contact sensitive  
2 feature comprises a recess.

1 32. The electronic device of claim 28, further comprising a display module at least  
2 partially formed to be part of the housing.